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WA-PS-0240

MEMORANDUM

State of Washington Department of Ecology



TO: Mark Adam FROM: Gary Rothwell

SUBJECT: Standard Oil Survey on 6-21-72

DATE: July 7, 1972

		pН	COD	BOD	TS	TNVS	TSS	TSNVS	LEAD	
S-1 Inf. Eff.	Comp = Comp =	9.4 9.5	177 177	61 33	326 344	185 232	28 41	2 10	N.D.	
Temp	TIME	INF		EF F	Tot	al Oils		TIME	INF	EFF
C°	0930 1015 1110 1210 1310 1410 1505	49. 49. >52. 46. 46. >52.	2 0 2 2 0	44.8 45.6 46.0 46.2 46.3 47.9 49.5	N.E). None	e Dete	1135 1415 cted	102 1150	104 77

Total flow during survey period (0900-1500) computed by multiplying sump pump rating by total hours pump ran.

 $120gpm \ X \ 5 \ hrs = 36,000 \ gal.$

S-2	TIME	TEM	P					
	1005 1105 1205 1305	42. 43. 45. 42.	2 8					
S-3	Eff Comp	рН 10.1	TS 415	TNVS 358	TSS 16	TSNVS 6		
		TIME 0915 1000 1100 1200 1300 1400 1500		TEMP 6 18.6 18.2 18.8 19.8 19.6 19.7 20.1	°C	Eff	TIME 1100	TOTAL OILS 6

Page Two Memo

S-4 TIME TEMP °C TOTAL OILS pН TS TNVS TSNVS TSS 0945 18.3 9.6 901 809 21 8 3

NOTE: S-3 was a composite sample, S-4 was a grab sample.

S-5 NOT SAMPLED

S -6	Eff	TIME	TEMP °C	pН	TS	TNVS	TSS	TSNVS	TOTAL OILS
		0945	17.5	7.1	2580	2090	8	0	5
		1400	18.8	_	-	-		_	•••

NOTE: A composite was requested at this station, However due to the inaccessability and extremely small amount of flow, grab samples were taken.

C-1 This station was sampled only for phenols because of laboratory loading and the fact that it is C-2 with salt water mixed with it at the rate of 500 gallons per minute. Phenols = 2.41

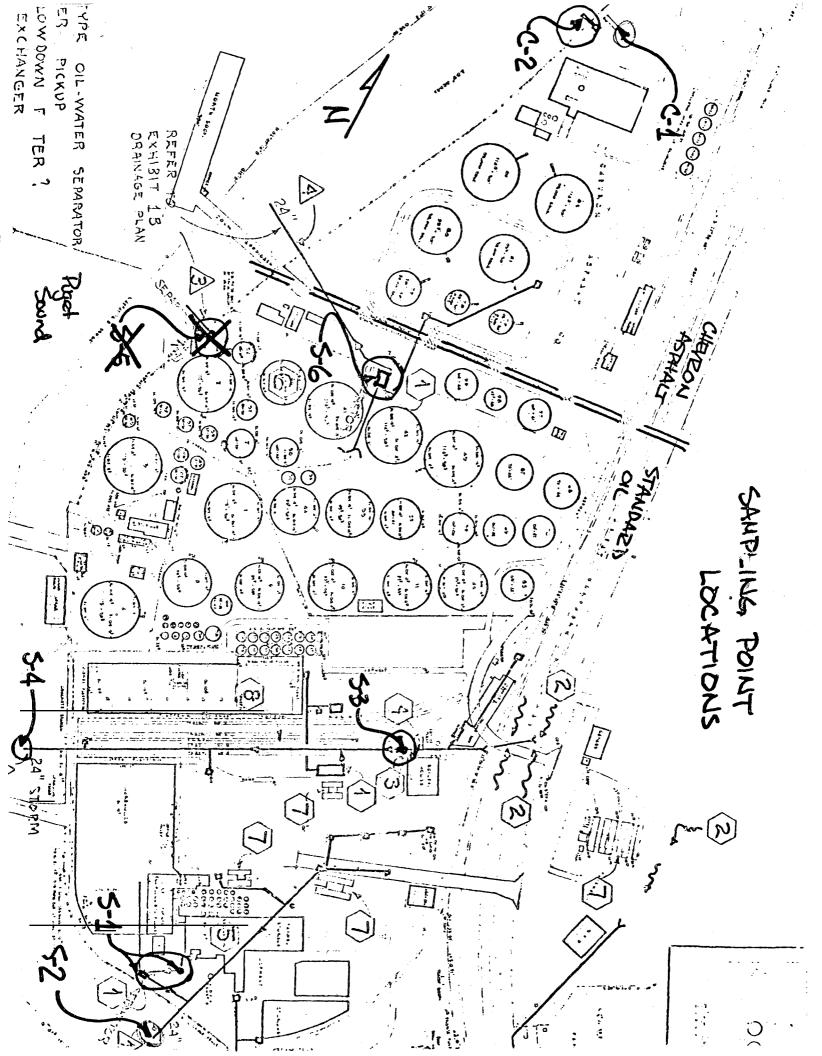
C-2		pН	TS	TNVS	$\mathtt{TS}\mathbf{S}$	TSNVS	PHENOLS
	Inf Comp	2.5	205	103	9	0	8.01
	Eff Comp	2.7	209	93	9	0	6.97
Eff	TIME	TEMP	°C	T-SULF	IDES	MERCAPTAINS	TOTAL OILS
	0930	27.8		3.	3	_	_
	1030	27.2		3.	0 -	•••	~
	1130	29.4		3.	1 .		13
	1230	29.1		3.	1		<u></u>
	1330	29.0		2.	5		-
	1430	>30.0		3.	4	144	*Sample broken in Lab

Total discharge from 0900 to 1500 = 9,840 Gallons

All results listed above are in PPM unless otherwise specified.

No special conditions were noted during the survey except that on 6-20-72 while we were setting up the survey a fairly large amount of blue-green paint was going through the separator at S-1 and the paint did not appear on 6-21-72, so would not show up on any of the lab results.

GR:d1b



6-1-72 (at)	MRA/dp	Ç N	C.		make the best of the best and the best of	S-6		ა ა	S 9	S :	S-2	្ត ស	1	JAP NUMBER
		API separator	Cooling water/separator			PI main yard separator	(NOTE:	API yard separator	Boiler house outfall	Boiler house	Barrel reconditioning outfall	Barrel reconditioning separator	2.7.1.7	SAMPLING POINT
		Six hour composite (once per hour)	Grab samples (several)	CHEVRON_ASPHALT	The second secon	Six hour composite (once per hour)	Only possible to sample	Six hour composite (once per hour)	Grab sample (one)	Six hour composite (once per hour)	Grab sample (several)	Six hour composite (once per hour)	TITLE OF SMIRTE	TYPE OF SAMPLE
	EFF LOST AT CAB.	Influent: In separator Effluent: At separator wier	Outfall to Sound		Control of the Contro	Influent: In separator Effluent: At separator	ining -	Influent: In separator Effluent: At separator wier	At outfall on beach when tide permits	Effluent from boiler house at grate outside	At outfall on beach	Influent: At pump sump Effluent: At separator wier	SAMPLING LOCATION(S)	
	Solids: TS, TNVS, TSS, TNVSS, settleable	pH, temperature, flow, total oil. phenol equivalent, sulfides, mercaptans	pH, temperature, flow, total oil, phenol equivalent	The second secon	management of the first constraint of the second of the se	pH, temporature, flow, total oil settleable solids	separator normally valved off)	pll, temperature, flow, total oil settleable solids	Same as for boiler house for check	pH, temperature, flow, total oil Solids: TS, TNVS, TSS, TNVSS, settleabl:	Temperature	pH, tempcrature, flow, total oil, BOD, COD, lead Solids: TS, TNVS, TSS, TNVSS, settleable	TESTS REQUESTED	

Pete Hildebrandt and Ron Pine and Files

May 23, 1972

Marc R. Adam

SURVEY REQUEST - STANDARD OIL COMPANY AND CHEVRON ASPHALT RICHMOND BEACH

Standard Oil Company of California (Western Operations) and Chevron Asphalt Company are located adjacent to each other at Point Wells on Puget Sound just north of Richmond Beach. Standard Oil operates a bulk petroleum storage, transfer, and blending facility as well as a barrel reconditioning operation and Chevron Asphalt has an asphalt refining plant at this site. Both industries have been operating over the past year under temporary waste discharge permits which included provisions for substantial improvements in their waste treatment facilities. These included such things as interception of domestic wastes to the sanitary sewer system, improvement of storm drainage systems, modification of existing oil water separators, and construction of a new oil water separator. These improvements were handled jointly by these industries and are now nearly complete. There are, however, other areas in which it is anticipated that further waste treatment improvements may be required.

Thus, we would like to have a thorough survey done on both of these industries in order to 1) check the efficiency and effectiveness of their new and modified waste treatment facilities and 2) get a good baseline of information on the discharge(s) which may require further treatment. Attached are a list of sampling information (sampling points, tests requested, etc.) and a plan view of the plant area locating the sampling points. We would like to have this survey done as soon as possible.

Any suggestions or questions you may have would be appreciated.

MRA/dp

5-23-72

State of . Washington Department of Ecology

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

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WATER QUALITY LABORATORY

DATA SUMMARY

Source_	STANDARY OIL	

Date Collected 6-21-22

+ LOST IN LAL

Collec	cted	Ву	<u> 5 ,</u>	P	<i></i>			 	
Goal,	Pro.	/Obj.		, ,	2	2	2		

Log No.	Station	5 14	COD	0145	Phonous	BOD	<u></u>	7.NV.S.	T-55	7.5.045	Len
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ો ત	C-Z INF	2.5			8.01	account.	205	103	9	0	
35	C-2 EFF	2.7		13	6.97	-	209	93	9	0	-
<u> </u>	0945 S6	7.1		5			1580	2090	۶	0	
37	54	9.6		3		***************************************	901	309	21	8	
<u> </u>	SI	9.5	177			33.	344	232.	. 41	10	NP
39	SI	9.4	177			61.	326	195	29	2.	NP
40	<u>S 3</u>	10.1		6		**************************************	415	358	16.	6.	
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115	S6 1400		~-	6		~~~	-				
416	\$1 EFT			77		**************************************					
	SI 125		w.	1150		*******				~ .	
	1135 S/ Eff			104							
	1140 511NF			102							
		MEKCAPTAN									
722235	C-S Elt	144.			,						
					,				:		
	results a										